Francis M. Seely

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❖ **Web Portfolio: https://seelyfrank.github.io/webportfolio/** ❖

EDUCATION

Boston University, College of Computing and Data Sciences **Boston, MA**
Bachelor of Science in Data Science; Minor in Computer Science **Expected May 2026**

- 4.0 Major GPA | 3.7 Overall GPA
- Relevant coursework: Programming for Data Science, Data Structures and Algorithms, Linear Algebra, Database Systems, Introduction to Natural Language Processing

SKILLS

Technical: Python (NumPy, Matplotlib, Pandas, sci-kit learn), Java, Rust, SQL
Tech Stack: Git, Jupyter Notebook, VSCode, Google Sheets, Excel
Individual: Communication, problem-solving, time management, collaboration, presentation

PROJECTS

Fraud Detection Analysis **Dec 2024**

- Conducted an exploratory data analysis to determine that the optimal way to preprocess the transaction data was through sci-kit learn's Robust Scaler.
- Used logistic regression and the random forest algorithm for binary classification of fraudulent transactions and tuned parameters to maximize F1 scores.

Degree of Separation Simulator **May 2024**

- Developed a graph analysis tool to read various graph datasets, directed and undirected, and compute shortest paths using BFS (Breadth-First-Search).
- Used Stanford's extensive datasets, like email-Eu-core and epinions, to emulate real-world scenarios and confirm the connectivity of graph vertices.
- Employed Rust's performance benefits to handle large-scale graph data efficiently.

Airport Flight Delay Exploratory Data Analysis **Nov 2023**

- Utilized Python to explore and model a flight log dataset to determine which factors contribute to the highest chance of a flight delay.
- Discovered that flying Southwest Airlines in the evening leads to the highest chance of having a flight delay through EDA.

EXTRACURRICULAR EXPERIENCE

BU CDS Toastmasters Club **May 2024**

- International nonprofit organization that promotes public speaking skills by hosting biweekly meetings where members give personal and professional speeches–both prepared and impromptu.

AWARDS

Winner of the College of General Studies Capstone Paper **October 2024**

- Collaborated with six peers to create a 62-page policy proposal for harm reduction efforts in Newark, New Jersey, and gave a two-hour oral defense before three judges.

Dean's List | 4 terms